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TITLE: Cobalt oxyhydroxide tabular particle used as raw material for manufacture of crystal orientation ceramic, comprises of cobalt oxyhydroxide having specific surface as growth surface

PATENT-ASSIGNEE:

ASSIGNEE

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CODE

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PRIORITY-DATA: 2001JP-0124510 (April 23, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002321922 A	November 8, 2002		007	C01G051/04

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002321922A	April 23, 2001	2001JP-0124510	

INT-CL (IPC): C01 G 51/04; C04 B 35/626

ABSTRACTED-PUB-NO: JP2002321922A

BASIC-ABSTRACT:

NOVELTY - A cobalt oxyhydroxide tabular particle, comprises of cobalt oxyhydroxide having (001) surface as growth surface.

DETAILED DESCRIPTION - A cobalt oxyhydroxide (CoO(OH)) tabular particle, comprises of cobalt oxyhydroxide having (001) surface as growth surface.

An INDEPENDENT CLAIM is also included for manufacture of cobalt oxyhydroxide plate shaped particle which comprises adding aqueous alkali solution to bivalent cobalt salt aqueous solution and precipitating cobalt hydroxide (Co(OH)₂) plate shaped particles. The bivalent cobalt in the particle is converted into trivalent cobalt by strong oxidation process and cobalt oxyhydroxide plate shaped particle is obtained.

USE - As raw material for manufacture of crystal orientation ceramics.

ADVANTAGE - The cobalt oxyhydroxide tabular particle has 001 surface with favorable lattice matching property with cobalt oxide layer. Hence the particle can be effectively used as raw material for manufacture of crystal orientation ceramics containing cobalt stratified oxide. The tabular particles are obtained easily.

DESCRIPTION OF DRAWING(S) - The figure shows X-ray diffraction pattern of cobalt oxyhydroxide tabular powder. (Drawing includes non-English language text).

CHOSEN-DRAWING: Dwg.2/2